STARBUCK

1951 Catalog

PLUMBING TOOLS

Since 1898

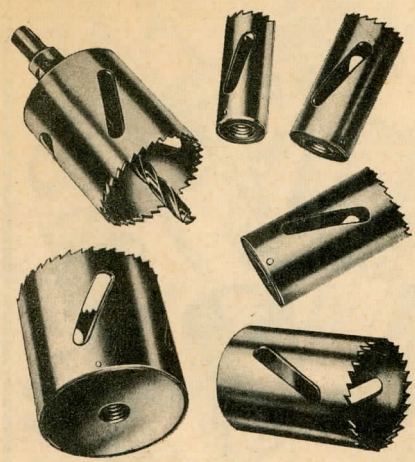
R. M. STARBUCK & SONS, INC.

P. O. BOX 1318 · · HARTFORD 1, CONN.

ROTARY
PIPE-HOLE SAWS

FOR SAWING HOLES FOR PIPE RISERS

THROUGH WOODEN FLOORS, CEILINGS, PARTITIONS



PATENTED

ROTARY PIPE-HOLE SAWS WILL DO THESE THINGS

1. EFFECT TREMENDOUS SAVINGS IN LABOR COSTS.
2. CUT PERFECT PIPE HOLES.
3. ELIMINATE THE DESTRUCTION OF EXPENSIVE AUGER BITS, EXPANSION BITS, ETC.

   CUT READILY THROUGH NAILS AND METAL CEILINGS WITHOUT HARM TO THE SAWS.

THE SAWS ARE 2¾ INCHES DEEP and therefore capable of sawing through several thicknesses of flooring.

THE LONG SPIRAL FLUTES in the saws provide an escape for the sawdust which would otherwise clog, heat up, and stall the saw.

NO PROJECTING SHOULDER to prevent the saws from passing through the hole it has cut.

THE LONG, LARGE DIAMETER DRILL makes the saw a steadier operating tool.

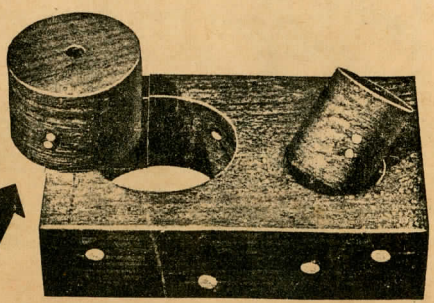
EASILY SHARPENED WITH A FILE yet exceedingly tough due to a special hardening process.

A SET OF ROTARY PIPE-HOLE SAWS

is complete, correct equipment for cutting pipe-holes whenever lines of pipe are to be run through wooden floors, ceilings and partitions. They are indispensable to Plumbers, Steam Fitters, Sprinkler Fitters, General Pipe Fitters, Factory Pipe Fitters, Public Utility Pipe Fitters, and Electricians.

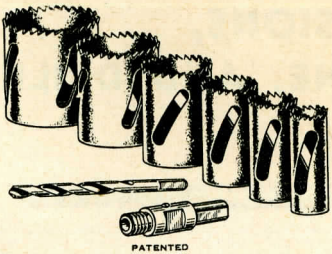
NOTE

ROTARY PIPE-HOLE SAWS have a diameter equal to the outside diameter of the pipe plus liberal clearance. They are not made in sizes required for tapping into cast iron boilers.



SHOWING CUTS THROUGH WOODEN BLOCK MADE BY ROTARY PIPE-HOLE SAWS.

NOTE SAWED OFF NAILS



ROTARY

PIPE-HOLE SAWS

A SET OF PIPE-HOLE SAWS INCLUDES A COMPLETE CUTTER FOR EACH SIZE AND NO. 57 SHORT SHANK AND DRILL

TRADE PRICES -- NET

SET NO. 0	3 SIZES	for ½", ¾", 1" Pipe	$ 9.50
SET NO. 1	3 SIZES	for ¾", 1", 1¼" Pipe	9.50
SET NO. 2	3 SIZES	for 1", 1¼", 1½" Pipe	10.00
SET NO. 3	4 SIZES	for ¾", 1", 1¼", 1½" Pipe	12.50
SET NO. 4	4 SIZES	for 1", 1¼", 1½", 2" Pipe	13.00
SET NO. 5	5 SIZES	for ¾" 1", 1¼", 1½", 2" Pipe	15.50
SET NO. 6	6 SIZES	for ½", ¾", 1", 1¼", 1½", 2" Pipe	18.00

MOUNTED SAWS (ONLY)
(SHANK AND DRILL NOT INCLUDED)

NO. 51	for ½" Pipe	(Makes 1" Hole)	$2.75
NO. 52	for ¾" Pipe	(Makes 1¼" Hole)	2.75
NO. 53	for 1" Pipe	(Makes 1½" Hole)	3.10
NO. 54	for 1¼" Pipe	(Makes 1⅞" Hole)	3.25
NO. 55	for 1½" Pipe	(Makes 2¼" Hole)	3.50
NO. 56	for 2" Pipe	(Makes 2½" Hole)	4.00

NO. 57

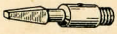
SHORT SHANK AND DRILL
for ½" ELECTRIC DRILL $1.75

NO. 58

SHORT SHANK (ONLY)
for ½" ELECTRIC DRILL $1.35

NO. 59

SHORT SHANK AND DRILL
for BIT BRACE $1.75

NO. 60 

SHORT SHANK (ONLY)
for BIT BRACE $1.35

NO. 61

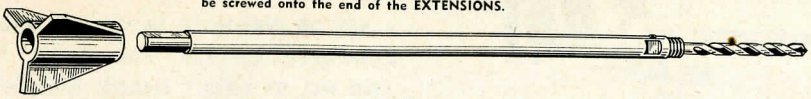
CENTER DRILL (ONLY)
for ABOVE SHANKS ..... $ .40

GUARANTEE — All Tools Shown Are Fully Guaranteed Against Defects.

All Prices Are F.O.B. Hartford, Conn., and Subject to Change Without Notice.

PIPE-HOLE SAW EXTENSIONS, CENTERING CONE, AND DRILL

NOTE: All sizes of rotary Pipe-Hole Saws may be screwed onto the end of the EXTENSIONS.

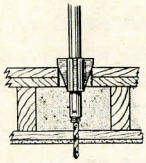


TRADE PRICES

NO. 62.....**PIPE-HOLE CENTERING TOOL** for **½" ELECTRIC DRILL**
Includes No. 64 Centering Cone, No. 67 Extension and No. 61 Center Drill.....**$2.75**

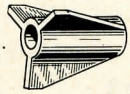
NO. 63.....**PIPE-HOLE CENTERING TOOL** for **BIT BRACE**
Includes No. 64 Centering Cone, No. 68 Extension and No. 61 Center Drill.....**$2.75**

CRACKED PLASTER often results when boring pipe holes down through ceilings. This danger is ELIMINATED by using the PIPE-HOLE CENTERING TOOL.

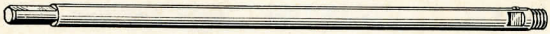


—— METHOD OF USING ——

After boring through the floor, set the CENTERING CONE in the hole, and with the DRILL held in EXTENSION, drill down through the ceiling. This will locate the pipe hole center in the ceiling. Then from below bore UP with the PIPE-HOLE SAWS.

NO. 64.....  .....**CENTERING CONE** .....**$ .75**

NO. 65.....**15-INCH EXTENSION** for **½" ELECTRIC DRILL WITH CENTER DRILL**.....**$2.00**

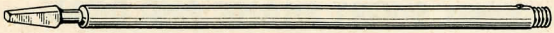


NO. 67.....**15-INCH EXTENSION (ONLY)** for **½" ELECTRIC DRILL**.....**$1.60**

NO. 77.....**7½-INCH EXTENSION** for **½" ELECTRIC DRILL WITH CENTER DRILL**.....**$1.90**

NO. 78.....**7½-INCH EXTENSION (ONLY)** for **½" ELECTRIC DRILL** **$1.50**

NO. 66.....**15-INCH EXTENSION** for **BIT BRACE WITH CENTER DRILL** **$2.00**



NO. 68.....**15-INCH EXTENSION (ONLY)** for **BIT BRACE** **$1.60**

NO. 61..... **CENTER DRILL** for **ABOVE EXTENSIONS** .....**$ .40**

GUARANTEE — All Tools Shown Are Fully Guaranteed Against Defects.
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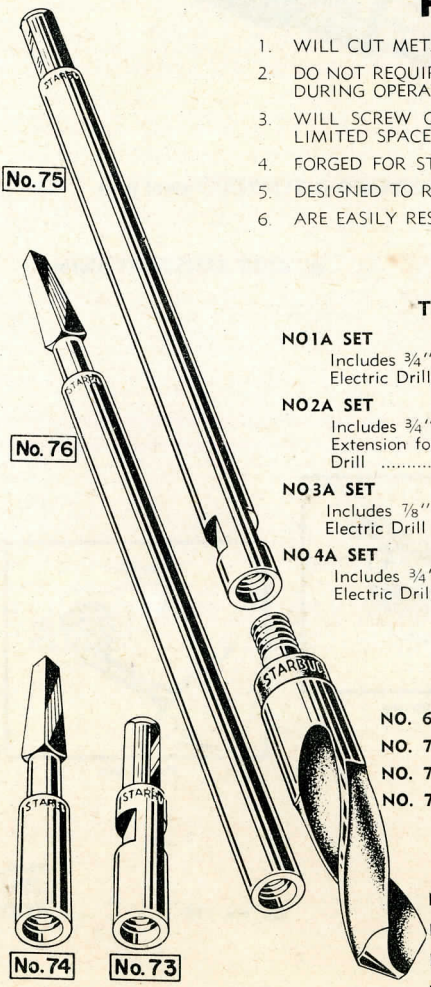
TUBING-HOLE EXTENSION DRILLS

FOR BORING HOLES FOR COPPER TUBING THROUGH FLOORS, BEAMS, CEILINGS AND PARTITIONS

FEATURES

1. WILL CUT METAL, NAILS, WOOD OR PLASTER.
2. DO NOT REQUIRE REVERSING OR STOPPING AT ANY TIME DURING OPERATION.
3. WILL SCREW ONTO LONG OR SHORT EXTENSIONS FOR LIMITED SPACE OR DEEP HOLES.
4. FORGED FOR STRENGTH AND TOUGHNESS.
5. DESIGNED TO ROTATE FREELY IN DEEP HOLES.
6. ARE EASILY RESHARPENED ON GRINDING WHEEL.



TRADE PRICES - - NET

NO 1A SET — TUBING-HOLE EXTENSION DRILLS
Includes ¾" Dia. Drill, ⅞" Dia. Drill, 3¼" Extension for Electric Drill, and 15" Extension for Electric Drill..... **$8.00**

NO 2A SET — TUBING-HOLE EXTENSION DRILLS
Includes ¾" Dia. Drill, ⅞" Dia. Drill, 1" Dia. Drill, 3¼" Extension for Electric Drill and 15" Extension for Electric Drill **$11.50**

NO 3A SET — TUBING-HOLE EXTENSION DRILLS
Includes ⅞" Dia. Drill, 1" Dia. Drill, 3¼" Extension for Electric Drill and 15" Extension for Electric Drill..... **$9.00**

NO 4A SET — TUBING-HOLE EXTENSION DRILLS.
Includes ¾" Dia. Drill, 1" Dia. Drill, 3¼" Extension for Electric Drill and 15" Extension for Electric Drill..... **$8.75**

DRILLS (ONLY) WITHOUT EXTENSIONS

NO. 69	⅝" DIA.	**$2.50**
NO. 70	¾" DIA.	**$2.75**
NO. 71	⅞" DIA.	**$3.00**
NO. 72	1" DIA.	**$3.75**

EXTENSION (ONLY) WITHOUT DRILLS

NO. 73	3¼" LONG FOR ½" ELEC DRILL	**$1.25**
NO. 74	3¼" LONG FOR BIT BRACE	**$1.50**
NO. 75	15" LONG FOR ½" ELEC DRILL	**$1.50**
NO. 76	15" LONG FOR BIT BRACE	**$1.75**

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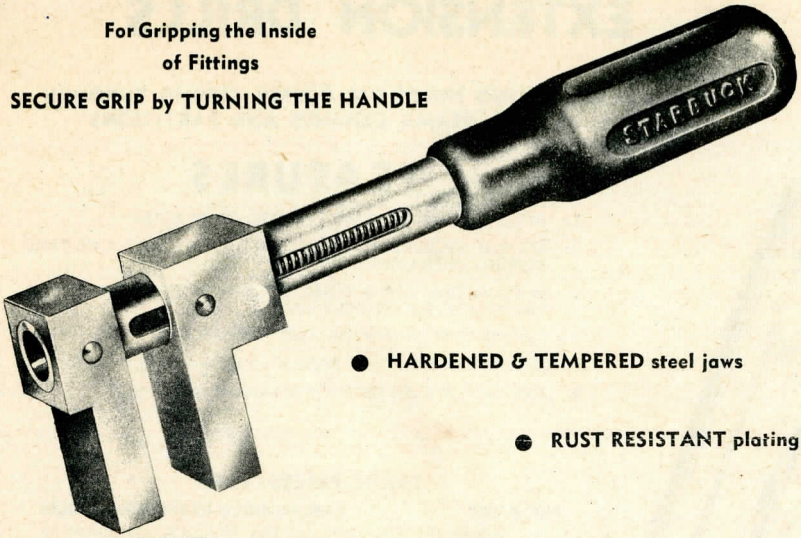
Plumbers'

EXPANSION WRENCH

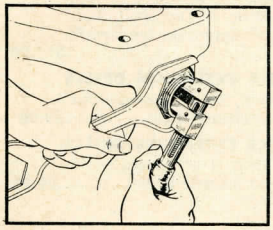
For Gripping the Inside of Fittings

- **SECURE GRIP by TURNING THE HANDLE**

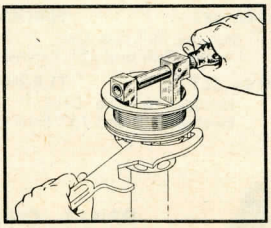


PAT. APPLIED FOR

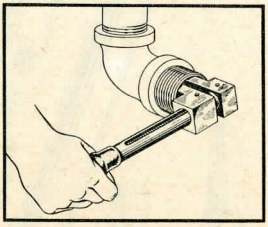
- **HARDENED & TEMPERED steel jaws**
- **RUST RESISTANT plating**



Closet Spuds



Basket Strainers



Pipe Nipples

Capacity ..... 1 1/4 in. to 3 3/8 in. dia. hole incl.

Total length ..... 7 7/8 in.

Weight ..... 1 1/2 lbs.

	TRADE PRICE
Cat. No. 736	**$4.35**

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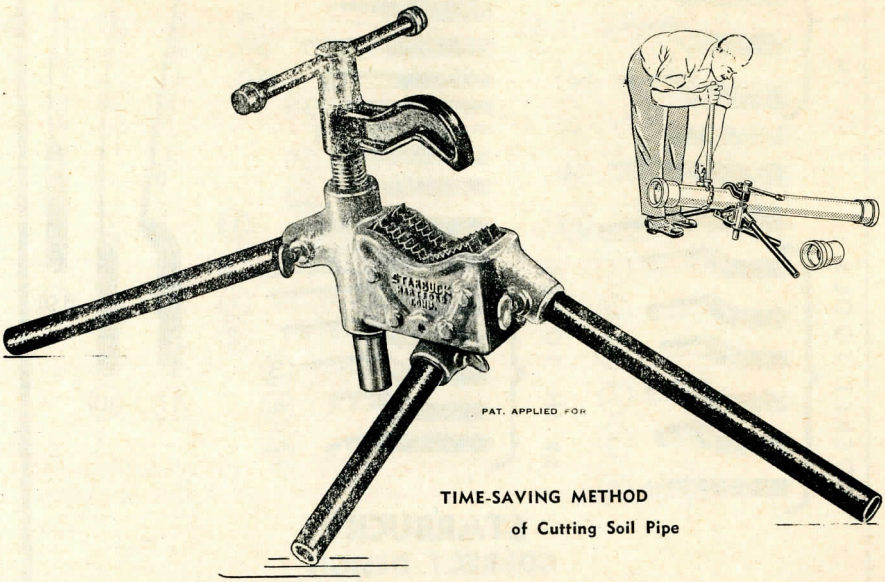
STARBUCK

SOIL PIPE VISE

ELIMINATES DIFFICULTY

in holding the pipe when using a soil pipe cutter.



TIME-SAVING METHOD
of Cutting Soil Pipe

- ★ SECURELY HOLDS 2, 3 and 4 inch Soil Pipe.
- ★ LABOR SAVING—Only one man to cut soil pipe.
- ★ STRONG AND STURDY—The vise will not tip.
- ★ STEEL and IRON throughout.
- ★ STEEL JAWS—Hardened and Tempered.
- ★ LIGHT WEIGHT—Only 18 lbs. Complete.
- ★ CONVENIENT to attach and detach legs.
- ★ EASY TO INSERT PIPE—The Clamp and Handle Swing Around. This allows the pipe to be placed down on the jaws.

		TRADE PRICE
SOIL PIPE VISE (Complete with legs)	**Cat. No. 718**	$15.50

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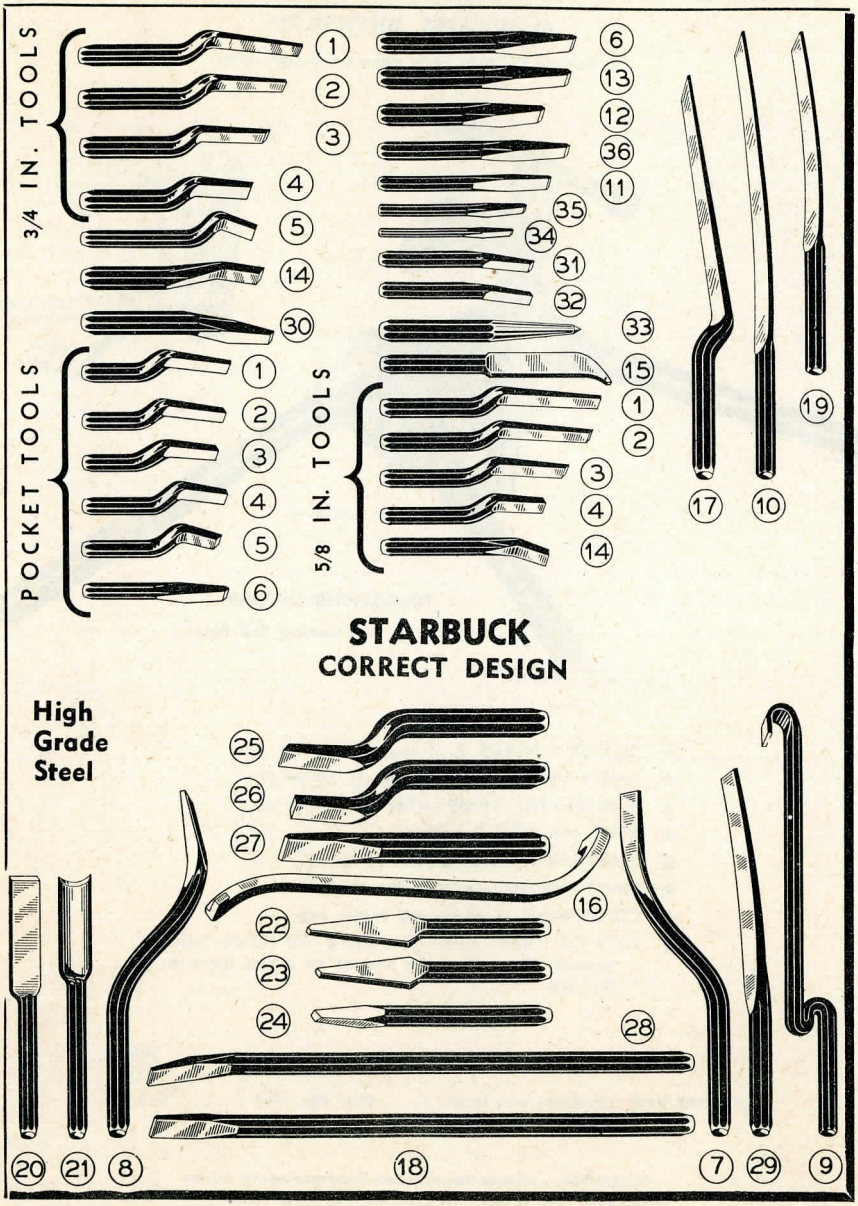
CAULKING TOOLS AND COLD CHISELS



CAULKING TOOLS AND COLD CHISELS

TRADE PRICES

No. 1—Yarning Iron, ¾-in., 3½-in. blade....$ .85
No. 1—Yarning Iron, ⅝-in., 3½-in. blade.... .75
No. 1—Pocket Yarn. Iron, ⅝-in.x4½-in. lg. .75
*No. 2—Regular Iron, ¾-in., 2½-in. blade.... .85
*No. 2—Regular Iron, ⅝-in., 2½-in. blade.... .75
*No. 2—Pocket Regular Iron, ⅝-in.x4½ lg. .75
*No. 3—Regular Iron, ¾-in., 2-in. blade..... .85
*No. 3—Regular Iron, ⅝-in., 2-in. blade..... .75
*No. 3—Pocket Regular Iron, ⅝-in.x4½ lg. .75
*No. 4—Finishing Iron, ¾-in., 1¼-in. blade .85
*No. 4—Finishing Iron, ⅝-in., 1¼-in. blade .75
*No. 4—Pocket Finishing Iron, ⅝-in.x4½-in. long ..... .75
*No. 5—Throat Iron, ⅝-in. stock ..... .80
*No. 5—Pocket Throat Iron, ⅝-in.x4½-in. lg. .75
No. 7—R. H. Offset Iron, ¾-in. stock..... 1.55
No. 7—R. H. Offset Iron, ⅝-in. stock..... 1.35
No. 8—L. H. Offset Iron, ¾-in. stock..... 1.55
No. 8—L. H. Offset Iron, ⅝-in. stock..... 1.35
No. 9—Ceiling Iron, ⅝-in. stock 1.55
No. 10—Yarning Iron, 10-in. blade..... .85
*No. 14—Stub Iron, ¾-in., 1-in. blade..... .85
*No. 14—Stub Iron, ⅝-in., 1-in. blade..... .75
No. 15—Picking Out Iron, ⅝-in. stock..... .85
No. 16—S Iron, ½-in. blade 1.55
No. 17—Yarning Iron, ¾-in., 9½-in. blade.. 1.00
No. 17—Yarning Iron, ⅝-in., 9½-in. blade.... .90
No. 19—Yarning Iron, ½-in., 7-in. blade..... .80
*No. 25—Regular Iron, 1-in., 2-in. blade..... 1.90
*No. 26—Regular Iron, 1-in., 1¾-in. blade.... 1.90
No. 28—Long Bent Nose Iron, 17-in. long.... 1.10
No. 29—Long Curve Iron, ¾-in., 8-in. blade 1.40
No. 30—Spreading and Cutting Iron, ¾-in..... .90
No. 31—Small Stub (in), ½-in., 5-in. long.... .75
No. 32—Small Stub (out), ½-in., 5-in. long .75
No. 33—Cut-Off Tool, ¾-in. stock 1.15
No. 37—Yarning Iron, ⅞-in., 5-in. blade... 2.00
Not illustrated. (Same pattern as No. 1)
No. 40—Yarning Iron, ⅝-in., 5½-in. blade... .75
Not illustrated. (Same pattern as No. 1)
No. 41—Yarning Iron, ¾-in., 5½-in. blade.... .85
Not illustrated. (Same pattern as No. 1)

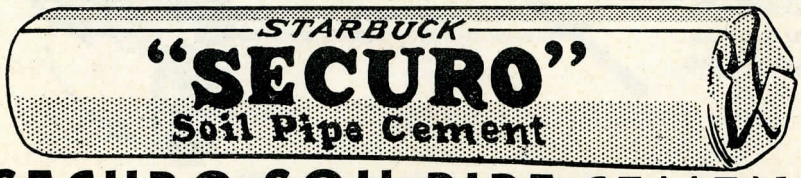
FLOOR CHISELS

Not Illustrated

No. 38—2-in. Bl. 1.90 No. 39—2½-in. Bl. 2.20
*Supplied either "IN" or "OUT."

COLD CHISELS, CAPE CHISELS, ETC.

No. 6—Cold Chisel, ¾-in.x7-in. long $1.10
No. 6—Pocket Cold Chisel, ⅝-in.x4½-in. lg. .85
No. 11—Cold Chisel, ½-in.x5½-in. long..... .80
No. 12—Cold Chisel, ¾-in.x5½-in. long..... 1.00
No. 13—Stub Cold Chisel for Cutting Soil Pipe, ¾-in.x7-in. long..... 1.15
No. 18—Brick Chisel, ¾-in.x18-in. long..... 1.40
No. 20—Hammer Head Wood Chisel, 1-in. bi. 1.00
No. 21—Hammer Head Gouge 1.10
No. 22—Cape Chisel, ⅝-in.x7½-in. long..... 1.05
No. 23—H'f R'd Cape Chisel, ⅝-in.x7½-in. 1.05
No. 24—Diamond Pt. Chisel, ⅝-in.x7½-in..... 1.05
No. 27—Cold Chisel, 1-in.x8-in. long..... 1.85
No. 34—¼-in. Cold Chisel ..... .65
No. 35—⅜-in. Cold Chisel ..... .75
No. 36—⅝-in. Cold Chisel ..... .80



SECURO SOIL PIPE CEMENT

Cat. No. 610

PRICES

Per Doz. Sticks $2.25

3 dozen or more.

Per Doz. Sticks 2.00

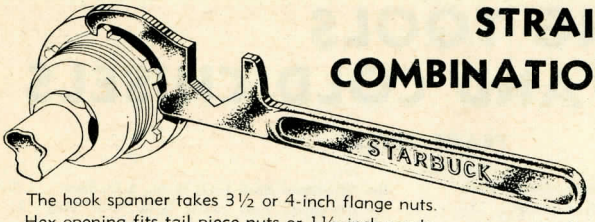
For Repairing Leaks, Splits, Sand Holes, Etc., On Soil, Water and Gas Pipes.

IT SETS QUICKLY and HOLDS UNDER PRESSURE

WILL PENETRATE and SEAL THE FINEST CRACK

STRAINER COMBINATION WRENCH

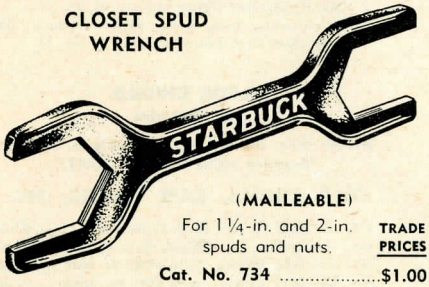
(MALLEABLE)



The hook spanner takes 3½ or 4-inch flange nuts.
Hex opening fits tail piece nuts or 1½-inch spuds.

Cat. No. 766 ..... **$1.35**

CLOSET SPUD WRENCH



(MALLEABLE)

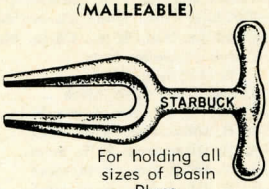
For 1¼-in. and 2-in. spuds and nuts.

TRADE PRICES

Cat. No. 734 ..... **$1.00**

BASIN PLUG WRENCH

(MALLEABLE)



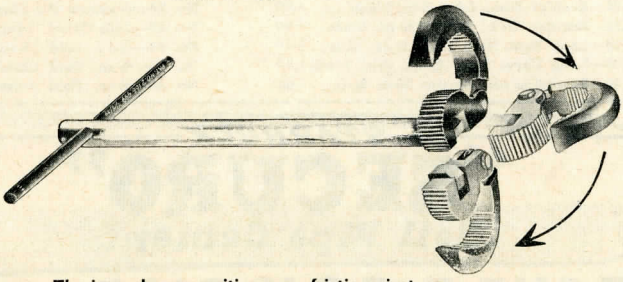
For holding all sizes of Basin Plugs.

Cat. No. 730 ..... **$ .35**

"SPEEDY" BASIN WRENCH

(Andree Type)

FOR BASIN NUTS, BALL COCKS, FLUSH VALVES, ETC.



The jaws change position on a friction pivot

Self adjusting to any shape of nut, the lock-tight hardened jaws bite through oily surfaces to make a slip-proof grip.

To change the position of the jaws simply direct the head to the desired position without the trouble of taking the wrench apart.

Cat. No. 762 ..... **$2.75**

RADIATOR SPUD WRENCH

(MALLEABLE)

For ½", ¾", 1", 1¼", 1½" and 2" Spuds

Cat. No. 758 ..... **$1.15**

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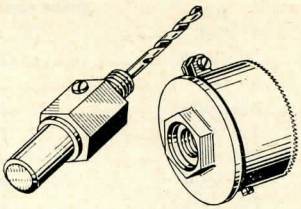
SHELL DRILLS

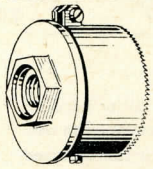


Cut Proper Size Holes for Pipe Taps Without Reaming

For Tapping Boilers, Tanks, Soil Pipe, Heaters, etc.

		TRADE PRICES
SET NO. 0B..3 SIZES	for ½", ¾", 1" Pipe Taps	$ 5.80
SET NO. 1B..3 SIZES	for ¾", 1", 1¼" Pipe Taps	6.10
SET NO. 2B..3 SIZES	for 1", 1¼", 1½" Pipe Taps	6.40
SET NO. 3B..3 SIZES	for 1¼", 1½", 2" Pipe Taps	7.80
SET NO. 4B..4 SIZES	for 1", 1¼", 1½", 2" Pipe Taps	8.40
SET NO. 5B..5 SIZES	for ¾", 1", 1¼", 1½", 2" Pipe Taps.	9.80
SET NO. 6B..6 SIZES	for ½", ¾", 1", 1¼", 1½", 2" Pipe Taps.	11.20

A Set Includes a Complete Cutter for Each Size and a No. 306 Shank and Drill.

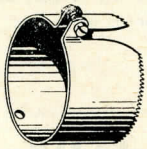


BLADE AND HEAD (ONLY)

Shank and Drill Not Included

Specify Size.

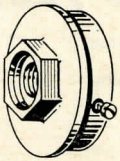
Cat. No. 290	for ½" Pipe Tap	$1.45
Cat. No. 290	for ¾" Pipe Tap	1.45
Cat. No. 290	for 1" Pipe Tap	1.45
Cat. No. 290	for 1¼" Pipe Tap	1.80
Cat. No. 290	for 1½" Pipe Tap	1.80
Cat. No. 290	for 2" Pipe Tap	2.10



BLADE (ONLY)

Specify Size.

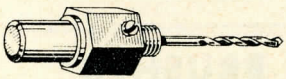
Cat. No. 294	for ½" Pipe Tap	.50
Cat. No. 294	for ¾" Pipe Tap	.50
Cat. No. 294	for 1" Pipe Tap	.50
Cat. No. 294	for 1¼" Pipe Tap	.55
Cat. No. 294	for 1½" Pipe Tap	.55
Cat. No. 294	for 2" Pipe Tap	.70



HEAD (ONLY)

Specify Size.

Cat. No. 302	for ½" Blade	.95
Cat. No. 302	for ¾" Blade	.95
Cat. No. 302	for 1" Blade	.95
Cat. No. 302	for 1¼" Blade	1.30
Cat. No. 302	for 1½" Blade	1.30
Cat. No. 302	for 2" Blade	1.50

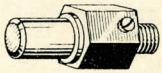


SHANK AND DRILL

FOR ½" ELECTRIC DRILL

Cat. No. 306 ..... $1.55

NOTE: Fits All Sizes of Heads



SHANK (ONLY)

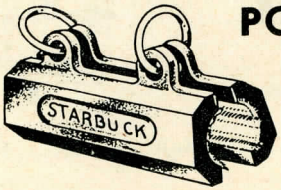
FOR ½" ELECTRIC DRILL

Cat No. 314 ..... $ .94

DRILL (ONLY)

FOR ABOVE SHANKS

Cat. No. 298 ..... $ .43



POLISHED PIPE HOLDERS

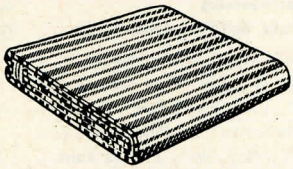
THE HOLDERS CAN BE HELD WITH A PIPE WRENCH OR IN A VISE

The surface in contact with the pipe is lined with convas firmly cemented to the holder. Use of these holders prevents marring polished pipe when cutting, threading or making up.

Cat. No. 80	⅜	$ .90
Cat. No. 81	½	1.00

WIPING CLOTHS

16-ply, folded either way of the grain.



Good Grade

TICKING

- treated with a preparation which makes them ready for instant use.

Cat. No.	Size	TRADE PRICES
194	1½"x3"	$ .25
198	2" x2½"	.25
202	2" x3"	.25
206	2½"x2½"	.30
210	2½"x3"	.30
214	3" x3"	.35
218	3¼"x3¼"	.40
222	3½"x3½"	.40
226	3½"x4"	.40
230	4" x4"	.45
5 ASSORTED	(2x3, 2½x3, 3x3, 3½x3½, 4x4)	1.65
12 ASSORTED	(1-1½x3, 2-2x3, 1-2½x2½, 3-2½x3, 3-3x3, 1-3½x3½, 1-4x4)	3.65

PLUMBERS' PASTE

THIS PASTE

Makes it unnecessary to use soil or paper in wiping joints. Slight heat bakes the paste onto the pipe like an enamel, and it can be wiped over indefinitely. Will not sour or spoil. Easily washed off after the joint is wiped.

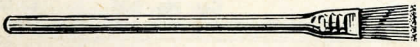
Cat. No. 434.....½ pt. can.....$ .35

PLUMBERS' WIPING FLUX

Unexcelled for tinning lead and brass.

Makes smooth working wiping cloths.

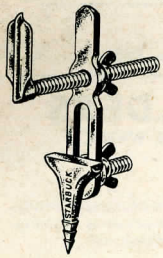
Cat. No. 354.....½ pt. can.....$ .40



ACID BRUSHES

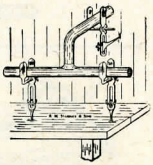
Bristles ½" Wide x ¾" Long—Overall Length 5¾"

Cat. No. 170.....Gross.....$3.60



ADJUSTABLE PIPE HOLDERS

Hold lead and brass work in position while making wiped joints.



Cat. No. 398.....(3 holders) $3.75

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PLUMBERS' LADLES

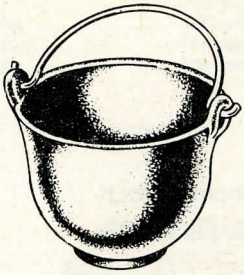
TRADE PRICES

DOUBLE LIPPED, PRESSED STEEL, WELDED ON FLAT STEEL HANDLE

Specify Size

Cat. No. 426	2½	In. Dia.	$ .78
Cat. No. 426	3	In. Dia.	.89
Cat. No. 426	3½	In. Dia.	.99
Cat. No. 426	4	In. Dia.	1.25
Cat. No. 426	5	In. Dia.	1.75
Cat. No. 426	6	In. Dia.	2.10
Cat. No. 426	7	In. Dia.	5.30
Cat. No. 426	8	In. Dia.	5.45
Cat. No. 426	9	In. Dia.	8.30

C. I. LEAD OR SOLDER POTS



Cat. No. 510	5	In. Dia.	$ 1.15
Cat. No. 510	6	In. Dia.	1.50
Cat. No. 510	7	In. Dia.	2.00
Cat. No. 510	8	In. Dia.	3.50

Larger Sizes By Request

Specify Size

STARBUCK BENDING SPRINGS

24 INCHES LONG, OIL TEMPERED

This spring is firmly attached to a cast iron head with ½-in. threaded end. By screwing on a ½-in. pipe this spring may be run any desired distance into a lead pipe.

Specify Size

Cat. No. 662	1¼	inch	$2.00
Cat. No. 662	1½	inch	2.25
Cat. No. 662	2	inch	2.70

BENDING SPRINGS

(Billings)

24 INCHES LONG. OIL TEMPERED

Specify Size

Cat. No. 658	1¼	Inch	$1.25
Cat. No. 658	1½	inch	1.50
Cat. No. 658	2	inch	2.00

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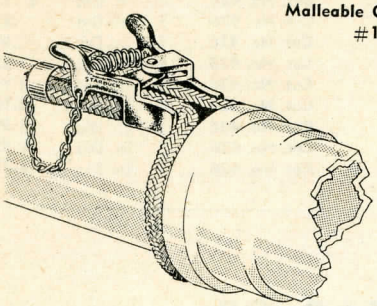
ASBESTOS JOINT RUNNERS



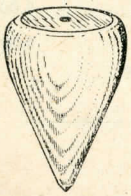
Malleable Clamps and Brass Ferrules
#14 Jack Chain Connecting Clamp to
Generous Length Square Rope of
Double Asbestos Braid Over
Asbestos Rope Center

Cat. No.	Size		TRADE PRICES
594	#1	(for 2, 3 & 4 In. Pipe)	$1.80
594	#2	(for 4, 5 & 6 In. Pipe)	2.00
594	#3	(for 6, 8 & 10 In. Pipe)	4.15
594	#4	(for 10, 12 & 14 in. Pipe)	4.80

Specify Size

CLAMP & SPRING (only) for No. 1 & No. 2 Joint Runners.....**Cat. No. 186** ..... .60
CLAMP & SPRING (only) for No. 3 & No. 4 Joint Runners.....**Cat. No. 187** 1.20
SPRING (only) for No. 1 & No. 2 Joint Runners.....**Cat. No. 655** ..... .10

Larger Size Joint Runners Can Be Supplied On Order.



TURN PINS

Best Grade of Hardwood
Smooth Finish

	TRADE PRICES
Cat. No. 454....Small.....	$ .33
Cat. No. 458....Medium....	.36
Cat. No. 462....Large.....	.40

4 BAR SOLDER MOLD

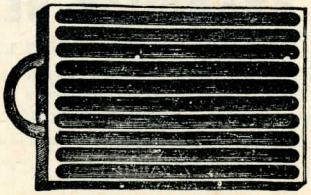
Cat. No. 646 .....$ 5.00

DRIFT PLUGS

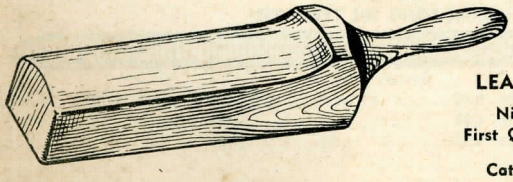
First Quality Hardwood
Smooth Finish

Cat. No. 482....1 ¼ inch....$	.21
Cat. No. 483....1 ½ inch....	24
Cat. No. 484....2 inch....	.30

10 BAR SOLDER MOLD



Cat. No. 650 .....$7.50



LEAD DRESSERS

Nicely Finished
First Quality Hardwood

Cat. No. 282.....$1.50

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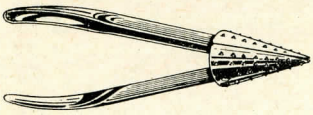
LEAD PIPE EXPANDING PLIERS

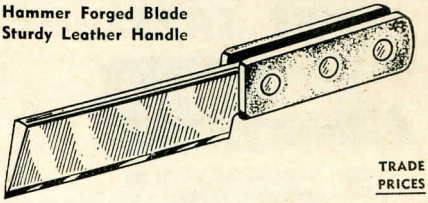


TRADE PRICES

Cat. No. 474 .....$5.25

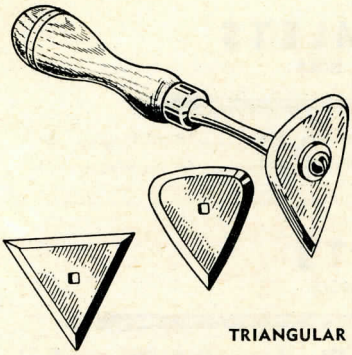
5" CHIPPING KNIFE

Hammer Forged Blade
Sturdy Leather Handle



TRADE PRICES

Cat. No. 422.....$1.30



SHAVE HOOKS

High Grade Steel Blades.
Strong Steel Shank Extends Beyond Wood Handle.

Cat. No. 414 with Oval Blade.....$ .70

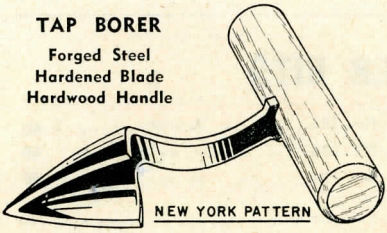
Cat. No. 418 with Triangular Blade.... .70

OVAL BLADE (only) **Cat. No. 158**..... .35

TRIANGULAR BLADE (only) .....**Cat. No. 162**..... .35

TAP BORER

Forged Steel
Hardened Blade
Hardwood Handle



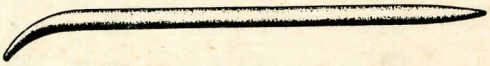
Cat. No. 678.....$ .65

PLUMBERS' SOIL

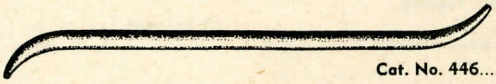
This product has been giving satisfaction for years.

Cat. No. 634.....4 Oz. Can.....$ .35

BENDING PINS



Cat. No. 442.....One End Bent..$ .71



Cat. No. 446.....Both Ends Bent..$ .72

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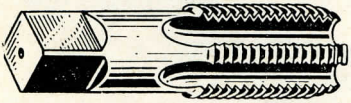
TAPER

PIPE TAPS



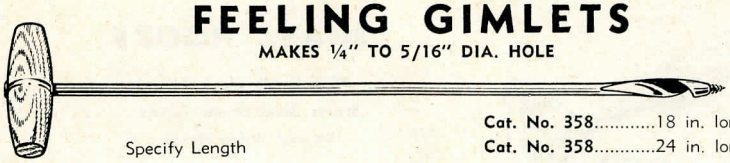
HIGH CARBON ALLOY STEEL
CORRECT TAPER

Specify Size

Cat. No.	Pipe Size	
682	⅛ inch	$ .40
682	¼ inch	.60
682	⅜ inch	.80
682	½ inch	1.05
682	¾ inch	1.65
682	1 inch	2.65
682	1¼ inch	4.00
682	1½ inch	4.75
682	2 inch	7.50

FEELING GIMLETS

MAKES ¼" TO 5/16" DIA. HOLE

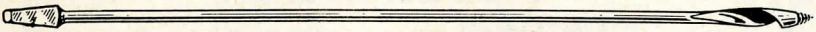


Specify Length

Cat. No. 358	18 in. long	$ [illegible]
Cat. No. 358	24 in. long	1.[illegible]

FEELING BITS

MAKES ¼" TO 5/16" DIA. HOLE



Specify Length

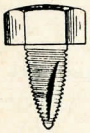
Cat. No. 122	18 in. long	$ [illegible]
Cat. No. 122	24 in. long	.05

SCREW DRIVER BITS

Cat. No. 126	¼ inch	$ .40
Cat. No. 126	5/16 inch	.40
Cat. No. 126	⅜ inch	.40

BOILER REPAIR PLUGS

WITH FIBRE PACKING



For Repairing Leaky Range Boilers.

Self Tapping

Specify Size Unless Assorted

Cat. No.	Size		
478	¼ inch	Per doz.	1.40
478	5/16 inch	Per doz.	1.40
478	⅜ inch	Per doz.	1.50
478	7/16 inch	Per doz.	1.75
478	½ inch	Per doz.	1.95

12 Assorted 3—1/4, 3—5/16, 2—3/8 2—7/16, 2—1/2 ..... **1.65**

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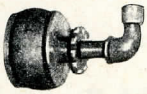
SOIL PIPE TEST PLUGS

SINGLE WING-NUT TEST PLUGS

Specify Size.

		TRADE PRICES
Cat. No. 486	for 1½" pipe	$2.00
Cat. No. 486	for 2" pipe	1.70
Cat. No. 486	for 3" pipe	2.10
Cat. No. 486	for 4" pipe	2.90
Cat. No. 486	for 5" pipe	3.75
Cat. No. 486	for 6" pipe	4.40



RATCHET TEST PLUGS

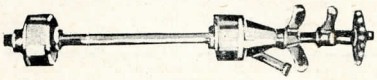
Specify Size.

Cat. No. 494	for 2" pipe	$1.70
Cat. No. 494	for 3" pipe	2.10
Cat. No. 494	for 4" pipe	2.90
Cat. No. 494	for 5" pipe	3.75
Cat. No. 494	for 6" pipe	4.40

RATCHET TEST PLUG WRENCH

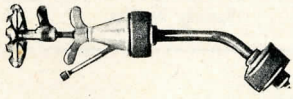
Cat. No. 759 ..... $ .55

DOUBLE STRAIGHT TEST PLUGS



Specify Size.

Cat. No. 490	for 2" pipe	$5.35
Cat. No. 490	for 3" pipe	8.15
Cat. No. 490	for 4" pipe	10.25
Cat. No. 490	for 5" pipe	13.65
Cat. No. 490	for 6" pipe	16.95



Y-BRANCH TEST PLUGS

Specify Size.

Cat. No. 498	for 2" pipe	$6.00
Cat. No. 498	for 3" pipe	8.50
Cat. No. 498	for 4" pipe	10.90
Cat. No. 498	for 5" pipe	14.50
Cat. No. 498	for 6" pipe	18.60

LEAD BEND TEST PLUG

Leaves lead bend in perfect shape and ready for closet flange.

Cat. No. 502 ..... for 4" pipe $3.25

TEST PLUG RUBBERS

Specify Size.

Cat. No. 586	for 1½" pipe	$ .30
Cat. No. 586	for 2" pipe	.30
Cat. No. 586	for 3" pipe	.45
Cat. No. 586	for 4" pipe	.70
Cat. No. 586	for 5" pipe	1.00
Cat. No. 586	for 6" pipe	1.20

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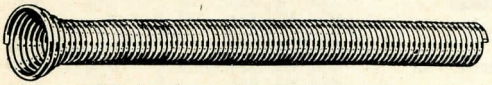
COPPER TUBING BENDING SPRINGS

EXTERNAL TYPE

Note that all sizes refer to the O. D. of the Tubing.



Belled end assures ease in removing tubing after bend has been made.

Cat. No.	O. D. Tubing Size	TRADE PRICES
654	3/8 inch	$ .75
654	1/2 inch	.95
654	5/8 inch	1.05
654	3/4 inch	1.15
654	7/8 inch	1.35
654	1 1/8 inch	1.50

Specify Size.

COPPER TUBING FLARING TOOLS

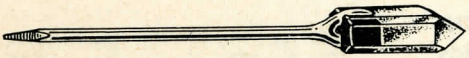
Note that all sizes refer to the O. D. of the Tubing.

Cat. No.	O. D. Tubing Size	
346	3/8 inch	$ .60
346	1/2 inch	.75
346	5/8 inch	.80
346	7/8 inch	.95
346	1 1/8 inch	1.65

Specify Size.

SOLDERING COPPERS

STRAIGHT TYPE



Weights are per pair; prices for single copper.

Cat. No.	Weight	
638	1 lb.	$ .58
638	2 lb.	1.00
638	3 lb.	1.48
638	4 lb.	1.65
638	5 lb.	2.00

Specify Weight.

SOLDERING COPPERS

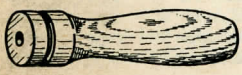
HATCHET TYPE

(Rigid Handle)

Weights are per pair; prices for single copper.

Cat. No. 642 ..... 3 lb. **$1.60**

SOLDERING COPPER HANDLES



Cat. No. 394 ..... **$ .10**

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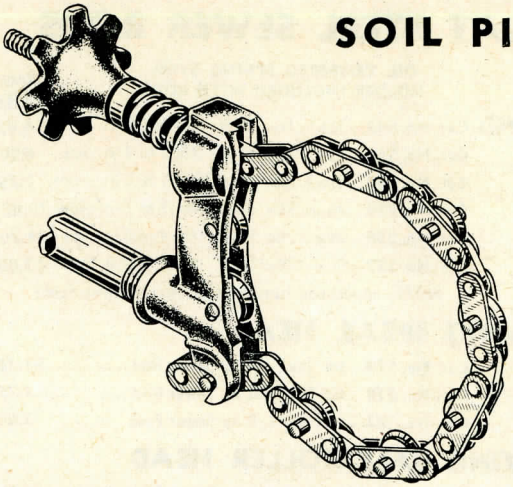
SOIL PIPE CUTTERS



Cat. No.	Size No.		TRADE PRICES
238	#1	(cuts 2"-4")	$11.00
240	#2	(cuts 4"-6")	12.35

Larger Sizes With Prices on Applicatio

REPAIR PARTS

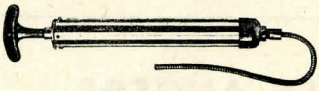
BALL RACE	$1.00
CHAIN WITH PULL BOLT AND WHEELS (for No. 238)	7.90
CHAIN WITH PULL BOLT AND WHEELS (for No. 240)	9.35
CUTTER BLOCK WITH WHEELS (for No. 238 & 240)	5.85
GNARLED NUT	1.50
PULL BOLT	1.30
SPRING	1.20
Cat. No. 451 **CUTTER WHEEL PINS** (for No. 238 & 240)	.19
Cat. No. 723 **CUTTER WHEELS** (for No. 238 & 240)	.75

ADAPTABLE IN ANY POSITION
Used to great advantage in cutting pipe that is already installed

IN A TIGHT CORNER
Embodies a principle that allows the tool to ride around the pipe either smooth or rough.

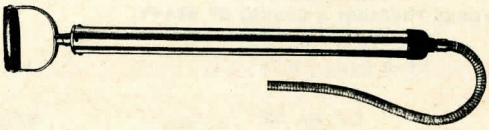
TRAP PUMPS (Expanding Plunger)

For lifting water out of siphon-jet bowls, traps, urinals, etc. Particularly useful in closing up houses for the winter. Flexible hose connector will fit into siphon-jet opening in closet bowl. A second connector of larger size is provided.



10 IN. BARREL (2 hose connectors)
Cat. No. 690 ..... $6.75

18 IN. BARREL (2 hose connectors)
Cat. No. 694 ..... 8.25



BRASS BARRELS

HOSE CONNECTOR (1/4" O. D.x12" long)
Cat. No. 698 ..... 1.25

HOSE CONNECTOR (1/2" O. D.x16" long)
Cat. No. 702 ..... 1.75

PACKING (for above pumps)
Cat. No. 706 ..... 1.25

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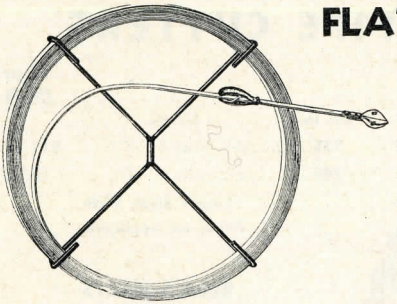
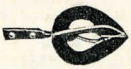


FLAT STEEL SEWER RODS

OIL TEMPERED SPRING STEEL HOLDER INCLUDED WITH RODS

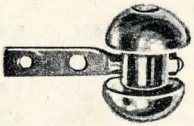
		TRADE PRICES
Cat. No. 542....	½x1/16x 25 ft. (for 1 to 2 in. pipe)	**$4.65**
Cat. No. 546....	½x1/16x 50 ft. (for 1 to 2 in. pipe)	**6.90**
Cat. No. 550....	⅝x3/32x 25 ft. (for 1 to 2 in. pipe)	**7.25**
Cat. No. 554....	⅝x3/32x 50 ft. (for 1 to 2 in. pipe)	**10.00**
Cat. No. 558....	¾x 1/8x 50 ft. (for 4 to 6 in. pipe)	**14.20**
Cat. No. 559....	¾x 1/8x100 ft. (for 4 to 6 in. pipe)	**23.00**

NOTE: Spearhead furnished unless otherwise speci,



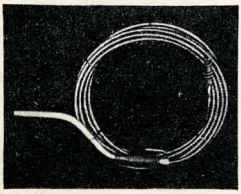
REVOLVING SPEAR HEAD

Cat. No. 574....for ½x1/16 in. Sewer Rod..... **$1.75**
Cat. No. 578....for ⅝x3/32 in. Sewer Rod..... **1.75**
Cat. No. 582....for ¾x 1/8 in. Sewer Rod..... **2.60**



REVOLVING BALL ROLLER HEAD

Cat. No. 562....for ½x1/16 in. Sewer Rod..... **2.25**
Cat. No. 566....for ⅝x3/32 in. Sewer Rod..... **2.25**
Cat. No. 570....for ¾x 1/8 in. Sewer Rod..... **2.70**

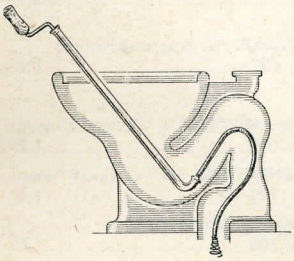


DRAIN PIPE and SEWER AUGERS

Made of finest spring steel wire
7/16 in. in diam.

Cat. No. 86.....10 feet long..... **$2.50**
Cat. No. 86.....15 feet long..... **4.00**
Cat. No. 86.....25 feet long..... **5.25**

Specify length



CLOSET AUGERS

A FLEXIBLE SPRING WORKS THROUGH A CASING OF HEAVY BRASS TUBING.

3 Foot Spring x 7/16" Dia.

Cat. No. 90.....Regular.....**$2.00**

Cat. No. 94.....Heavy Duty..... **3.50**

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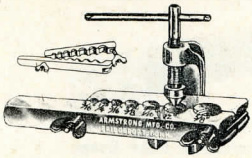
COPPER TUBING FLARING TOOL



For 3/16-in., 1/4-in., 5/16-in., 3/8-in., 7/16-in., 1/2-in., 5/8-in. outside diameter tubing.

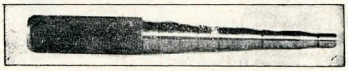
Cat. No. 351.....**$3.60**

BRASS WASTE PIPE SWEDGING TOOL

For 1 1/4", 1 3/8" and 1 1/2" Wastes

Cat. No. 674.....**$1.80**

COPPER TUBING SWEDGING TOOL



For 3/8-in., 1/2-in. and 3/4-in. Tubing

Cat. No. 670.....**$3.85**

COPPER TUBING BRUSHES

Cat. No.	O.D. of Tubing	
174	1/2-in.	$ .55
174	5/8-in.	.60
174	7/8-in.	.65
174	1 1/8-in.	.75

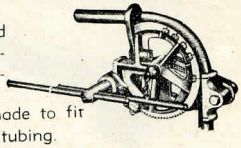
Specify size

REPAIRMAN'S TAPER REAMER

Used extensively for enlarging holes in thin metals. 1/2-in. diam. at large end—1/8-inch diam. at point.

Cat. No. 539....For Bit Brace as shown....**$1.50**
Cat. No. 540....T-Handle for Hand Use.. **1.50**

HANDY PIPE AND TUBE BENDERS



For bending iron and steel pipe, brass, copper and aluminum tubing.

These benders are made to fit outside diameter of tubing.

STANDARD

Recommended for sott tubing or short runs of hard-temper tubing.

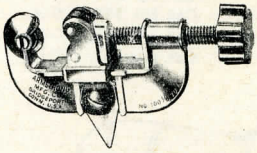
Cat. No.	O.D. of Tubing	
102	1/2-in.	$9.20
103	5/8-in.	12.40
104	7/8-in.	14.90
105	1 1/8-in.	18.35

HEAVY DUTY

Recommended where most work is done in hard temper, heavy steel or iron pipe. Use in all cases where large quantities of hard-temper tubing are to be bent.

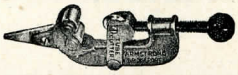
99	1/2-in.	13.35
100	5/8-in.	16.00
101	7/8-in.	21.00

TUBING CUTTERS



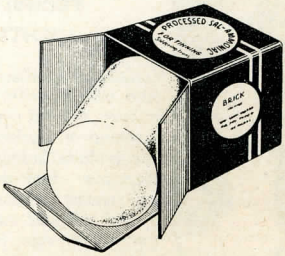
This Cutter cuts square and clean and will cut close to a flare.

Cat. No. 263..Up to & Inc. 1 1/8-in. O.D...**$3.25**



Cat. No. 266....1/2 to 1 5/8-in. O. D..... **4.90**

SAL-AMMONIAC BRICK



Processed

for longer life and the elimination of the impurities which are detrimental to soldering coppers.

Cat. No. 598.....1/2-lb. cake.....**$ .35**

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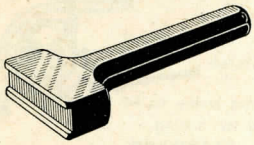
HAND GROOVERS



TRADE PRICES

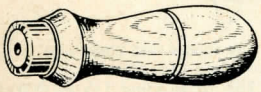
Drop Forged — Properly Heat Treated

For Stove Pipe
Cat. No. 362.....7/16-in.....**$2.00**

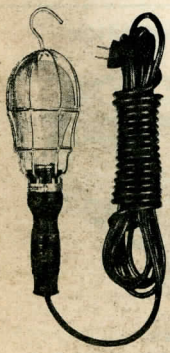
For Furnace Pipe
Cat. No. 363..... 1/2-in..... **2.15**

FILES

Plumber's Rasp .....**Cat. No. 514**....10-in.....**$1.25**
Flat Bastard File.....**Cat. No. 334**....10-in..... **.75**
Half-Round Bastard....**Cat. No. 338**....10-in..... **.95**
Round Bastard File....**Cat. No. 342**....10-in..... **.65**



File Handle .....**Cat. No. 390**.....**$ .15**

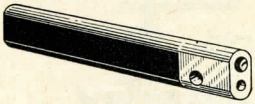


PORTABLE TROUBLE LIGHTS

Extra-Duty Reflector Guard with built-in reflector welded to case. Welded joints prevent breaking or crushing. Withstands abuse. Sturdy steel hook stays put. Easy to attach to any support. Non-slip handle grip of moulded rubber. Fits the fist with ease. Heavy-Duty rubber service cord.

Cat. No. 710.....25-foot.....**$3.35**
Cat. No. 710.....50-foot..... **5.15**
Specify Length

RIVET SETS AND HEADERS



TRADE PRICES

Special Steel
Heat Treated for Hard Usage

Cat. No.	Size	Hole	
611	00	5/16	$1.25
611	0	9/32	1.25
611	1	15/64	1.20
611	2	.213	1.20
611	3	.191	1.10
611	4	.166	1.10
611	5	.149	.80
611	6	.140	.80
611	7	.128	.80
611	8	.110	.80

Specify size

COMPASS SAW

Fine Quality

Beech Wood Handle
High Grade Blade

Complete Saw and Handle
Cat. No. 602.....12-inch.....**$1.85**

Blade Only
Cat. No. 138.....12-inch .....ea. **1.00**
doz. **11.50**

Handle Only
Cat. No. 386..... **1.00**

Metal Cutting
KEYHOLE SAW

The Blade Revolves
and can be locked in eight different positions
Cuts Steel, Iron, Wood, Copper, Etc.
Strong, large, comfortable handle.

TRADE PRICES

Blade cutting length 11¼ in.
Cat. No. 603 for Metal.....24 Teeth.....**$2.00**
Cat. No. 604 for Metal.....10 Teeth..... **2.00**
Cat. No. 605 for Wood..... 7 Teeth..... **2.00**

EXTRA BLADES
Cat. No. 140 for Metal.....24 Teeth, ea. **.50**
Cat. No. 139 for Metal.....10 Teeth, ea. **.50**
Cat. No. 141 for Wood..... 7 Teeth, ea. **.50**
Specify size

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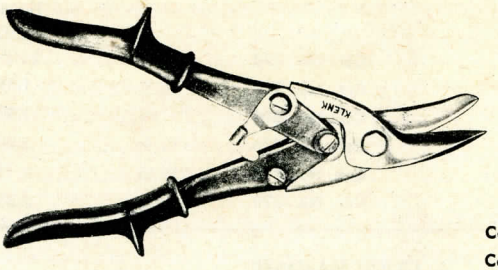


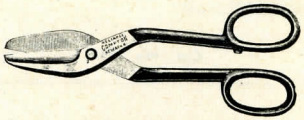
KLENK'S AVIATION SNIPS

The ORIGINAL and one of the most satisfactory snips in this line.

TRADE PRICES

Cat. No. 618.....R. H. (L. H. Cut)....**$5.10**
Cat. No. 622.....L. H. (R. H. Cut).... **5.10**

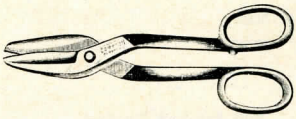
DROP FORGED BAR TOOL STEEL



Specify size

REGULAR TINNERS' SNIPS

Cat. No. 630.....3 -in. cut.....**$5.25**
Cat. No. 630.....3½-in. cut..... **5.75**



DROP FORGED BAR TOOL STEEL

Specify size

COMBINATION TINNERS' SNIPS

This snip is adapted for cornice makers and is an all around combination tool for cutting straight, circular and irregular shapes.

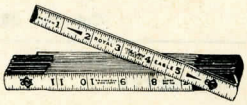
Cat. No. 631.....3 -in. cut...**$5.75**
Cat. No. 631.....3½-in cut... **6.25**

DOUBLE CUTTING
With Crimper

PIPE SNIPS

Cat. No. 626.....**$ 7.25**

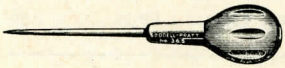
PATENTED FEATURE
Gives strength, accuracy and long wear.



FOLDING RULE

Graduations on both edges.

Cat. No. 590.....6 ft.....**$1.35**



BLADE EXTENDS THROUGH THE HANDLE

AWL

Hammer Forged Tool Steel

Cat. No. 98.....**$ .75**

PLUMBERS' SCRATCH CLOTH

For Cleaning Lead Work

Cat. No. 190.....**$ .35**

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BALL-PEIN HAMMERS

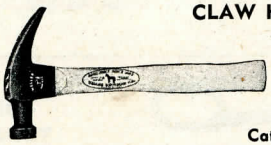
Polished Finish

Specify weight

		TRADE PRICES
Cat. No. 370	½-lb.	$1.75
Cat. No. 370	¾-lb.	1.85
Cat. No. 370	1 -lb.	1.90
Cat. No. 370	1 ¼-lb.	2.00
Cat. No. 370	1 ½-lb.	2.15
Cat. No. 370	2 -lb.	2.35

CLAW HAMMER

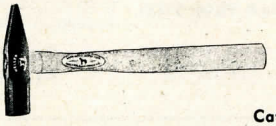
Polished Finish
RIPPING TYPE



Cat. No. 374 ..... 1-lb. $2.45

All Hammers Shown Are
DROP FORGED, PROPERLY HARDENED and TEMPERED
and
CORRECTLY BALANCED
With First Quality Handles of Correct Size.

RIVETING HAMMER

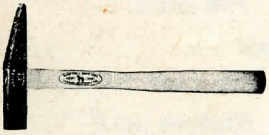


Full Polished Finished

Cat. No. 378 ..... ¾-lb. $2.05

TINNERS' HAMMER

Full Polished Finish



Cat. No. 382 ..... ¾-lb. $2.05

PLUMB AND LEVEL

(Mahogany)

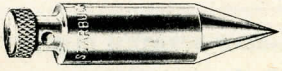
Specify length

Cat. No. 430	12-in.	$1.50
Cat. No. 430	18-in.	2.50

PLUMB BOB

Nickel Plated and Buffed
Turned from Cold Rolled Steel

HANG TRUE and INSURE ACCURACY



Will drop through 1 inch hole

Cat. No. 506 ..... $ .75

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HEAVY DUTY
PIPE WRENCH
(Trimont)

Positive Grip and Easy Release.
Replaceable Insert and Removable Jaw
of
Drop Forged Alloy Steel
Hardened Teeth

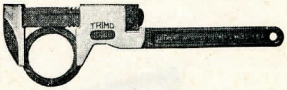
Will exceed Federal specifications for Type 11 Heavy Duty Wrenches.

		TRADE PRICES
Cat. No. 754	6-in	**$1.40**
Cat. No. 754	8-in	**1.59**
Cat. No. 754	10-in	**2.15**
Cat. No. 754	14-in	**2.85**
Cat. No. 754	18-in	**3.98**
Cat. No. 754	24-in	**7.00**

Specify length

THIN JAW
MONKEY WRENCH

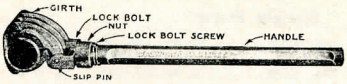
All Steel



An Extra Thin Tool.
Made for Close Quarter Work
Especially
For Plumbers and Steamfitters

Plenty of Strength
to take every size nut, union, bonnet, plug, cap or spud — up to 2⅝"

Cat. No. 770.....**$3.50**



PARMELEE WRENCH

No. 1 takes Pipe ⅜" to 1"

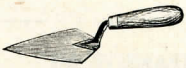
Cat. No. 738.....Size 1.....**$19.95**

WARNOCK STRAP WRENCH

For Use on Brass and Nickeled Pipe and Tubing.

Cat. No. 774.....⅛" to 2" pipe.....**$4.00**

STRAP (only) For Warnock Wrench.....**Cat. No. 666**..... **.40**



PLUMBERS' POINTING TROWEL

Forged in one piece from high grade Trowel steel.
Blades carefully hardened, tempered and ground.

Cat. No. 714.....5½-in.....**$1.20**

PLUMBERS' PUTTY KNIFE

Carefully Hardened and Tempered
Alloy Steel Blade
Extends Through Handle.

Cat. No. 424....1¼" wide - stiff blade....**$ .65**

GUARANTEE — All Tools Shown Are Fully Guaranteed Against Defects.
All Prices Are F.O.B. Hartford, Conn., and Subject to Change Without Notice.

SOLID CENTER AUGER BITS

Double Spur For Finish Work

Full Strength for Heavy Use.
Positive Chip Clearance.

Cat. No.	Size in 16ths	TRADE PRICES
130	4	$ .75
130	5	.75
130	8	.80
130	10	.90
130	11	1.00
130	12	1.00
130	14	1.10
130	16	1.25
130	18	1.45
130	20	1.65

Specify size

FAST BORING SOLID CENTER BITS

Single Spur — Course Worm

Especially for wet, green, or knotty wood.
Total length approximately 10 inches.

Cat. No.	Sizes in 16ths	
134	10	$1.20
134	11	1.45
134	12	1.45
134	14	1.65
134	16	1.85
134	18	2.35
134	20	2.75

Specify size

"SETFAST" EXPANSIVE BIT

Quickly and Accurately Adjusted and Securely Locked

Each in Leatherette Case

Cat. No.	Hole Size	
114	⅝ to 1¾-in.	$3 00
118	⅞ to 3 -in.	3.70

EXTENSION BIT HOLDER

Made to follow a 11/16-inch bit and can be recommended for continuous use on bits 12/16-inch and smaller.

Holds Bits Securely

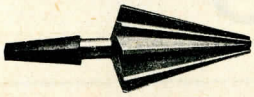
		TRADE PRICES
Cat. No. 403	18-in. long	$3.25

Positive Lock Insures Absolute Grip on Shank.

Made extra heavy to follow a 13/16-inch bit and drive tools up to 2-inch size.

Cat. No. 406	18-in. long	$4.50

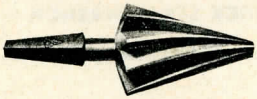
BURRING REAMERS



Straight Fluted

Cat. No. 522	¼ to 1¼-in.	$2.50
Cat. No. 526	¼ to 2 -in.	4.75

BURRING REAMERS



Spiral Fluted

Cat. No. 530	⅛ to 1 -in.	$2.30
Cat. No. 534	¼ to 1¼-in.	2.70
Cat. No. 538	¼ to 2 -in.	5.35

CLARK PATTERN EXPANSIVE BIT

Cat. No.	Hole Size	
106	½ to 1½-in.	$2.25
110	⅞ to 3 -in.	3.10

GUARANTEE — All Tools Shown Are Fully Guaranteed Against Defects.
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MECHANIC'S STANDARD TORCH
(CLAYTON & LAMBERT)

For General Use

Generates a powerful steady blue flame 7 inches long, which can be reduced to a small flame for light work. Burner has **blunt** control needle, removable jet block and detachable cleaner pin. Generator is weather protected with full skirted heavy windshield securely fastened in place. Heavy gauge brass tank. Bottom filled. Automatic pump. Regularly supplied for burning gasoline. Kerosene may be used by changing jet block and cleaner pin. Specify when ordering if kerosene is to be used.

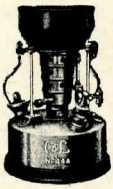
Capacity One Quart

TRADE PRICES

Cat. No. 687..... **$12.20**

COILTROL FIRE POT
(CLAYTON & LAMBERT)

Easy To Start and Simple to Operate



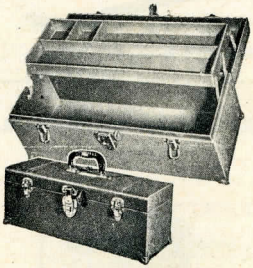
The quick detachable coil unit has a flame control device which allows the powerful flame to be varied in size and volume. A pot of metal can be rapidly melted and then, by an adjustment of the flame control valve be held at the desired temperature. This results in a saving of gasoline and metal. Designed to handle a full six inch metal pot. Regularly supplied for burning gasoline. Kerosene may be used by changing burner jet.

Capacity One Gallon

Cat. No. 345.....**$15.73**

SUPER-STEEL TOOL CHESTS

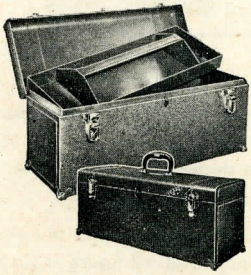
Built especially for Plumbers and Fitters. Exceptionally Sturdy in Every Detail.



With Cantilever Tray

Cat. No. 178.....19x7x7.....**$5.30**

Cat. No. 182.....22x8x9..... **7.10**



With Tote Tray

Cat. No. 183.....22x8x9.....**$ 7.75**

FIRE POT REPAIRS

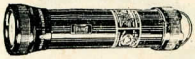
COILS WITH WIRES.....**Cat. No. 234**.....**$ .80**

BURNER PINS .....**Cat. No. 450**..... **.35**

ELBOWS .....**Cat. No. 330**..... **.32**

SPECIAL "EVEREADY"

PLUMBER'S FLASHLIGHT



Unusually Sturdy and Dependable

AN INDUSTRIAL TYPE

Not Found on the Average Counter

Heavy Brass Sheathed With Extremely Durable Insulating Material.

Resistant to Water, Oil, Grease, Alcohols and Acids.

Heavy Duty Switch — Easily Removed and Replaced by Hand.

Prefocused — Silver Plated Die-Cast Lacquered Reflector.

Extra Bulb in Bottom Cap Included.

Special Safety Design — Approved by U. S. Bureau of Mines and Listed by Underwriters' Laboratories.

If bulb is broken the electrical circuit is instantly opened before igniting inflammable or explosive mixtures of gas in the surrounding atmospheres.

Uses Standard Size Batteries Such as No. 1050 or 950 "Eveready."

(Sold only without batteries)

Cat. No. 353 Flashlight (only).....**$3.85**

GUARANTEE — All Tools Shown Are Fully Guaranteed Against Defects.

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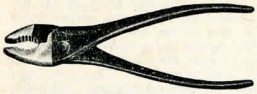
COMBINATION SLIP JOINT PLIERS

Have two jaw-opening adjustments and a shear-type wire cutter.

Black Finish — Polished Nose

STRAIGHT NOSE



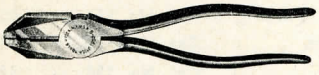
		TRADE PRICES
Cat. No. 466	8-in.	**$ .75**
Cat. No. 467	10-in.	**.95**

BENT NOSE — 30° OFFSET

		TRADE PRICES
Cat. No. 470	8-in.	**$ .80**
Cat. No. 471	10-in.	**1.00**

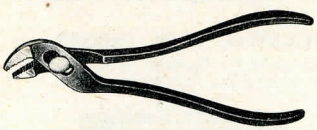
SIDE CUTTING PLIERS

Heavy Duty



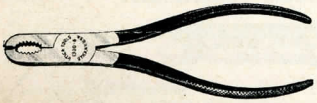
Cat. No. 472.....8-in.....**$3.80**

WATER PUMP PLIERS



Cat. No. 473.....10-in.....**$2.30**

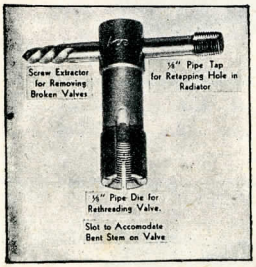
GAS and BURNER PLIERS



Cat. No. 464.....8-in.....**$2.20**

Cat. No. 465.....10-in.....**$2.80**

3 in 1 RADIATOR VALVE TOOL



The 3 in 1 Radiator Valve Tool is indispensable for the Plumber.

Cut Shows Operations It Will Perform On Air Or Syphon Valves.

No wrench is necessary as construction of tool allows the tool itself to be used as a handle to operate each part.

Cat. No. 513.....**$1.00**

REFILL TUBE TOOL

This tool makes it easy to repair refill tubes in flush tanks.

Consists of ¼"-40 Tap & Die and Screw Extractor

for removing broken or damaged refill tubes.

Cat. No. 541.....**$1.10**

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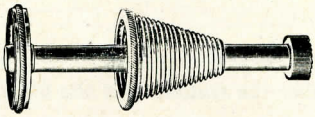
BIBB SEAT REAMER



For Re-seating Bibbs, Basin Cocks, Valves, etc.

Four cutters with each reamer

½-inch, ⅝-inch, ¾-inch and ⅞-inch

TRADE PRICES

Cat. No. 518.....$3.10

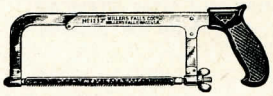
PIPE EXTRACTOR
(Easy Out)

Tough Alloy Steel
Wedges into the pipe when turned counter-clockwise

Cat. No. 331.....for ¼-in. .....$ .63
Cat. No. 331.....for ⅜-in. ..... .63
Cat. No. 331.....for ½-in. 1.00
Cat. No. 331.....for ¾-in. 1.45
Cat. No. 331.....for 1-in. 2.00

Specify size

PISTOL GRIP HACK SAW FRAME



We have never offered so sturdy and well-balanced a frame.
Capacity 8-12 in. — Depth 3¼-in.

Cat. No. 366.....$2.10

HACK SAW BLADES
Flexible Backs

Medium for Iron. Fine for Brass and Copper.

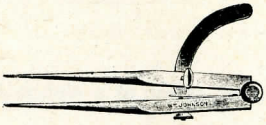
10-inch Blades

Cat. No. 142.....Medium—18 T.
Cat. No. 146.....Fine—32 T.
Per Pkg. (10 blades) **$1.05**
10 Pkgs. (100 blades) or More—
Per Pkg. **1.00**

12-inch Blades

Cat. No. 150.....Medium—18 T.
Cat. No. 154.....Fine—32 T.
Per Pkg. (10 blades) **$1.40**
10 Pkgs. (100 blades) or More—
Per Pkg. **1.35**

WING DIVIDERS



Cat. No. 274..... 6-in. **$1.35**
Cat. No. 274..... 8-in. **1.70**

Specify Size

SCREW DRIVERS

Made Especially for Plumbers' and Fitters' Use

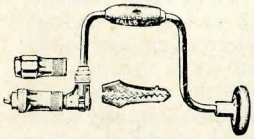
An extra fine quality screw driver with a steel head set into the end of the handle and everlastingly locked directly to the shank of the blade. The more hammering on the head, the tighter this lock becomes.

The blades are hammer-forged from a fine quality tool steel

Cat. No. 606.....4-in. blade.....$ .75
Cat. No. 606.....5-in. blade..... .80
Cat. No. 606.....6-in. blade..... .85
Cat. No. 606.....8-in. blade..... .95

Specify length

RATCHET BRACE



A HIGH-GRADE TOOL

Cat. No. 166.....10-in. sweep.....**$6.50**

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TRICKS OF THE TRADE

To determine, when a pipe is out of line, whether the trouble is in the fitting or the pipe.

Turn the pipe half way around. If the pipe then shows the same alignment, the defect is with the fitting; but if the pipe points off in an opposite direction, it shows that the thread on the pipe is crooked.

To make a flexible, water-tight joint on tile or cast-iron pipe.

Use a mixture of 1 part asphalt, 1 part rosin, and 1 or 2 parts Portland cement. This should be melted in a kettle, and thin enough to pour. Stir to prevent settling of cement. After oakum is set into the hub, use a joint runner and pour same as on lead joint. The joint will set quickly, and may be poured in water.

To remove wood screws that are difficult to start.

Heat a piece of iron red hot, and hold it against the head of the screw for a short time. After the screw has cooled down, it can generally be easily started.

To build up threads on brass work which are cut or worn too deep.

Cover the thread with parafine or with acid, and then dip the thread into molten solder, or pour the hot solder over the thread. This will give the thread a good coating of solder, and make the fitting screw firmly onto its thread.

To cut rubber successfully.

Always keep the knife wet.

The method to pursue in locating the cause of poor action of a siphon-jet water closet:

In the first place, determine, if possible, whether the closet bowl is a high-grade article, or defective in construction. There are several other circumstances which might produce poor action of the closet. There might be a partial stoppage of either the jet or the main passage, or of the connection between bowl and flush tank, or even of the flush valve; there might be too small an amount of water in the tank, or the flush valve might be out of order.

To find whether there is trouble in the jet or main passage, tie a string to a metal ball heavy enough and small enough to roll through the passageway. Attach a piece of sponge to the middle of the string, and pull it back and forth through the jet passage; the same thing may be done with the main passageway, and should result in both instances in removing any stoppage that may be causing trouble. The bowl would of course have to be disconnected to perform this work.

For making up pipes that carry oil or gasolene. Use fish glue.

TRICKS OF THE TRADE

To prevent the peeling of paint on hot pipes.

Before applying paint to such pipes, cover them with shellac varnish.

An anti-freezing mixture:

An excellent anti-freezing mixture is made of glycerine and wood alcohol, and can be used to great advantage for filling traps in unoccupied houses during the cold weather, after the water has been removed from them.

To cut a crooked thread.

Occasionally the plumber wishes to change the direction of his pipe, but not sufficiently to call for the use of a special fitting. In this case the work may be done with a crooked thread, which can be cut by using a loose bushing.

To find the area of an irregular shaped figure of more than three sides, each side being a straight line:

From any corner of the figure draw lines to such other corners as will divide the figure into triangles; then find the area of each separate triangle. The sum of these area will give the total area of the figure.

To find the contents of a square or rectangular tank:

Multiply length, breadth and height in feet together; the result by 7.4; this will give the number of gallons in the tank. Or multiply the length, breadth and height in inches and the result by .004329.

To find the contents of any length of pipe of any diameter:

Find the number of gallons in a foot of the pipe and multiply by the number of feet.

To find the contents of a cylinder:

Multiply the diameter in inches by itself, this by the height, and the result by .0034; this gives the number of gallons.

To find the head in feet, the pressure being known:

Multiply the pressure per square inch by 2.31.

To find the pressure per square inch exerted by a column of water:

Multiply the head in feet by 0.434. The result will be the pressure in pounds.

What is the weight of a gallon of water? 8.33 pounds.

How many gallons of water in one cubic foot? 7.5 gallons.

What is the weight of a cubic foot of water? 62.5 pounds.

STARBUCK TOOLS

To PURCHASERS OF STARBUCK PLUMBING TOOLS

NOTE: NO PRICE ON ANY ITEM LISTED OR DESCRIBED HEREIN, EXCEEDS THE CEILING PRICE FOR THAT ARTICLE, AS DETERMINED UNDER THE APPLICABLE OPS CEILING PRICE REGULATION.

Prices on the following items are not expected to be increased:

Rotary Pipe-Hole Saws—Tubing-Hole Drills—Soil Pipe Cutters—Test Plugs—Bending Springs—Shell Drills—"Securo" Soil Pipe Cement—Soil Pipe Vise—Basin Wrench—Solder Pots—Sewer Rods—Pipe Holders—Drain Augers—Braces—Ext. Bit Holders—Compass Saws—Snips—Wiping Cloths—Spud Wrench—Monkey Wrench—Basin Pug Wrench—Bibb Seat Reamer—Pipe Extractors—Pliers, Plumb-Bob

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Trade Prices shown in this catalog are net, except that 5% discount is allowed on orders of **$25.00** or more, when cash accompanies order.

Our Guarantee means that we will replace any defective tool in any part of the country, or refund.

C. O. D. Orders must be accompanied by remittance of 25% of estimated amount of order.

State Sales Tax effective in the state of Connecticut must be added to all orders from Connecticut

Write To Us About Tools Not Shown.

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